



# Science Virtual Learning

## 2nd Grade Plants Need Light

April 06, 2020



2ND GRADE SCIENCE  
Lesson: [April 6th]

**LEARNING TARGET:**  
Students will identify basic plant needs.



## BACKGROUND: This is a new skill for 2nd Graders.

- ❖ In 1st grade students needed to use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.
- ❖ In 2nd grade students plan and conduct investigations on the growth of plants when growing conditions are altered.

## ENGAGE:

- [Click here](#) to watch a video to learn about parts of a plant! Try to get all of the trivia right at the end!
- What words were new to you about the parts of a plant?

# ENGAGE

## Do all plants need light?

### Plants Need Light



#### Do All Plants Need Light?

Two friends are talking about the needs of plants. Which friend has the best idea about plants and light?



*Isabella: I think all plants need light.*

*Faye: I think most plants need light. There are some plants that live only in the dark.*

Who do you agree with?

Do you think Isabella is right, that ALL plants need light?

Or Faye who thinks only SOME plants need light?

## ENGAGE



What do you see in this photo?

What do you notice about the plants in the glass container?

What do you wonder about in this photo?

## EXPLORE

Let's start our experiment! Let's ask ourselves,  
Do plants need light?

What will happen to a plant after one week  
with no sunlight on its leaves?

**Make a Prediction** Do a plant's leaves  
need sunlight for the plant to grow?

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Think about the  
plants you've seen.  
Do they need  
sunlight to grow?

Or, do they grow  
without sun?

## EXPLORE

If you decide to do this experiment at home, you will need these supplies!

### Materials

- 2 potted plants
- aluminum foil
- tape
- hand lens

Make sure these plants are ones your family wants you to use!



# EXPLORE

## Carry Out an Investigation

- 1 Tape foil over all the leaves of one of the potted plants.
- 2 Place both plants in a sunny location, and water them when needed.
- 3 After a week, remove the aluminum foil from the leaves.
- 4 Using a hand lens, observe the differences between the leaves on the two plants.

Watch your plants over the next week and make notes of what you are seeing!





# EXPLORE

Which plant got what it needed to survive?

## Communicate Information

1. **Record Data** Draw a picture of the leaves that were covered in foil. Then draw a picture of the leaves that were not covered in foil.

Leaves That Were Covered



Leaves That Were Not Covered

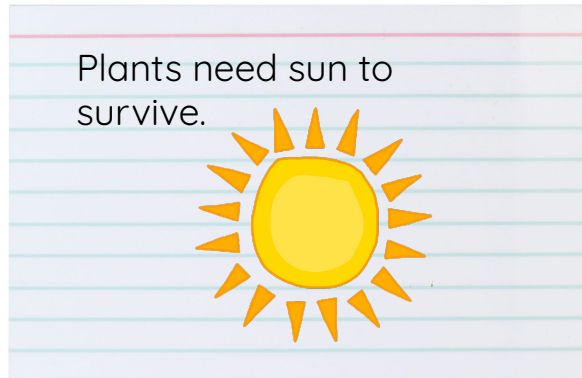


The plant that was covered wilted. Wilted means that the leaves went limp because they did not have what they needed!

What do you think the plant needed?

## EXPLAIN

[Click here](#) to read a book to find out what plants need to survive.



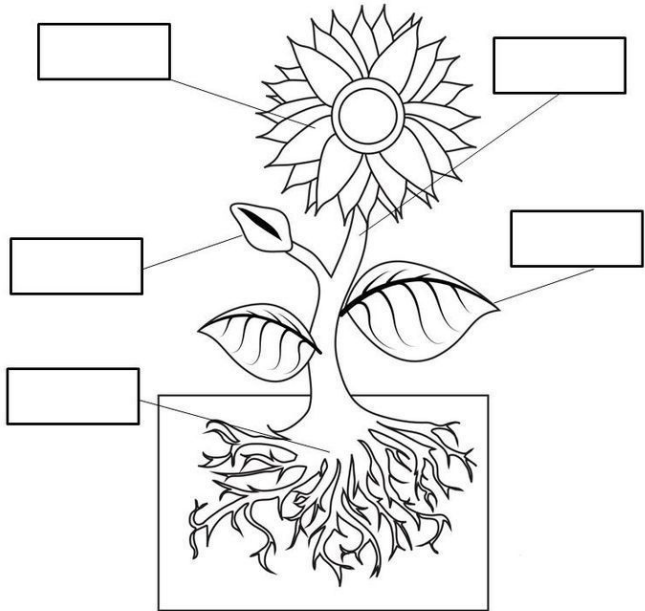
Use index cards or post it notes to draw pictures of the things plants need to survive!

# EXPLAIN

## Label the Plant

Directions: Use words from the bank to label the parts of the plant. Color the diagram when you are finished!

Name: \_\_\_\_\_



Word Bank: roots, stem, leaves, flower, seed

This page will be in your packet. Test your knowledge and label the parts of the plant!

## TRY AT HOME

Draw your own plant!

1. Grab a few pieces of paper, crayons to color, scissors to cut, and a pencil to label your own plant!
2. What are the four important parts of a plant? Make sure you label them!
3. When you're done, show someone at home and hang it up to show what you have learned!

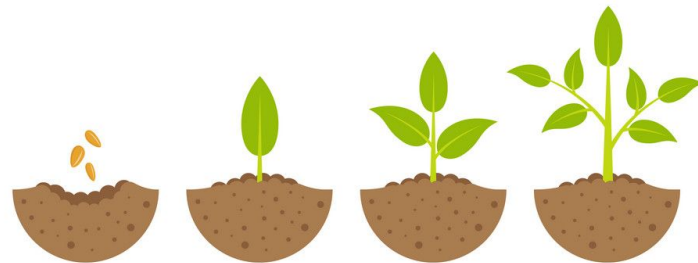


# ONLINE ELABORATE

Click [here](#) to watch a video about parts of a plant!

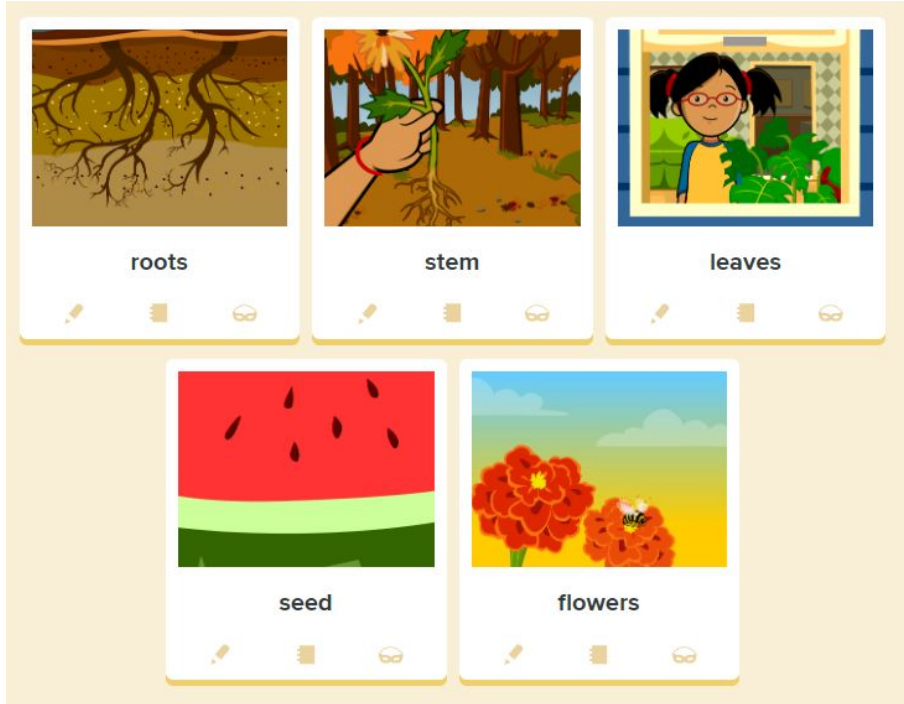
## BrainPop Login

Ask your teacher  
for your login!



# ONLINE ELABORATE

Click [here](#) to do an interactive word play on brainpop!



Open the website!

1. Click a word
2. Choose DRAW, WRITE, or ACT
3. Use the pen to draw, type to write, and fill in the blanks to act.



## SELF CHECK:

Go tell someone in your home your answers.

How did you do on this lesson?



[Listen to this song!](#)

When you are done go  
sing it to someone in  
your house!